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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-JCP-SWD-2014-15 Date: 05.03.2014

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP, Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over storm water drain at Muneshwara Swamy Temple, Muthyala Nagar in JP Park Ward No.17

Sample Identification : 10mm, 12mm, 16mm,20mm, 25mm TMT Fe 415 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 05.03.2014

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 415	10	0.619	487	520	16.0
2	Fe 415	12	0.886	506	539	19.0
3	Fe 415	16	1.60	527	557	20.0
4	Fe 415	20	2.430	550	579	22.0
5	Fe 415	25	3.890	587	620	23.0

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Job No.: CECTC-JCP-2014-15 Date: 10.03.2014

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.
AGENCY	:	**Sri.J.C.Prakash,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Bridge over Storm Water Drain at Muneshwara Swamy Temple, Muthyala nagar in JP Park Ward No.17, BBMP, Bangalore.
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	350 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-JCP-2017-18

Date : 10.03.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over Storm Water Drain at Muneshwara Swamy Temple, Muthyala nagar in JP Park Ward No.17, BBMP, Bangalore.

Date of Testing : 10.03.2014

Material : Sand

Total Wt. of Aggregates **1500**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	74	4.93	4.93	95.1	90-100
2.36	145	9.67	14.60	85.4	75-100
1.18	223	14.87	29.47	70.5	55-90
600 Micron	232	15.47	44.93	55.1	35-59
300 Micron	398	26.53	71.47	28.5	8-30
150 Micron	375	25.00	96.47	3.5	0-10

Information is furnished by the Agency

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Job No.: CECTC-JCP-2017-18 Date : 10.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.
Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.
Name of Work : Construction of Bridge over Storm Water Drain at Muneshwara Swamy Temple, Muthyala nagar in JP Park Ward No.17, BBMP, Bangalore.
Date of Testing : 10.03.2014
Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	510	3.40	3.40	96.60	95-100
20	8520	56.80	60.20	39.80	30-70
10	3565	23.77	83.97	16.03	10-35
4.75	1674	11.16	95.13	4.87	0-5

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Job No.: CECTC-JCP-2017-18

Date : 10.03.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeshwari Nagara Division, BBMP Bangalore.

Agency : **Sri.J.C.Prakash,** Contractor, Bangalore.

Name of Work : Construction of Bridge over Storm Water Drain at Muneshwara Swamy Temple, Muthyala nagar in JP Park Ward No.17, BBMP, Bangalore.

Date of Testing : 10.03.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	206	4.1	4.1	95.9	95-100
10	2874	57.5	61.6	38.4	25-55
4.75	1798	36.0	97.6	2.4	0-10

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 29.11.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at Muneshwara swamy Temple, Muthyala Nagar in JP Park Ward No.17
Location : Approach Slab
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.11.2014	29.11.2014	8.298	705.0	31.33
2	01.11.2014	29.11.2014	8.241	698.5	31.04
3	01.11.2014	29.11.2014	8.200	791.2	35.16

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 20.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at Muneshwara swamy Temple, Muthyala Nagar in JP Park Ward No.17
Location :Super structure
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.07.2014	20.08.2014	8.325	869.6	38.65
2	23.07.2014	20.08.2014	8.310	854.2	37.96
3	23.07.2014	20.08.2014	8.300	850.1	37.78

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 18.07.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work : Construction of Bridge over Strom Water Drain at Muneshwara swamy Temple, Muthyala Nagar in JP Park Ward No.17
Location : Super Structure
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{35}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.06.2014	18.07.2014	8.210	871.6	38.74
2	20.06.2014	18.07.2014	8.236	856.9	38.08
3	20.06.2014	18.07.2014	8.211	874.2	38.85

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Job No.: CECTC-JCP-W.O-17-2014-15

Date: 12.06.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.

Agency : **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.

Name of the work : Construction of Bridge over Strom Water Drain at Muneshwara swamy Temple, Muthyala Nagar in JP Park Ward No.17

Location : Open Foundation

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{35}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.05.2014	12.06.2014	8.210	869.3	38.64
2	15.05.2014	12.06.2014	8.256	874.1	38.85
3	15.05.2014	12.06.2014	8.239	852.1	37.87

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Job No.: CECTC-JCP-W.O-17-2014-15 Date: 08.05.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Executive Engineer,** Rajarajeshwarinagar Division, BBMP, Bangalore.
Agency	: **M/s J C Prakash Infrastructure Pvt. Ltd.,** Bangalore.
Name of the work	: Construction of Bridge over Strom Water Drain at Muneshwara swamy Temple, Muthyala Nagar in JP Park Ward No.17
Location	: Open Foundation
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{35}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2014	08.05.2014	8.269	869.6	38.65
2	10.04.2014	08.05.2014	8.285	874.2	38.85
3	10.04.2014	08.05.2014	8.231	856.2	38.05

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Job No.: CECTC-JCP-SWD-2015-16 Date: 29.11.2014

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** RR Nagara Division, BBMP, Bangalore.
Contractor : **Sri. J.C.Prakash,** Contractor, Bangalore.
Name of the work : Construction of Bridge over Storm Water Drain at Muneshwara Swamy Temple, Muthyala Nagara in JP Park Ward No.17, BBMP, Bangalore.
Sample ID : Reinforced Cement Concrete- Approach Slab
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{30}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.11.2014	29.11.2014	8.286	714.2	31.74
2	01.11.2014	29.11.2014	8.274	725.7	32.25
3	01.11.2014	29.11.2014	8.262	737.3	32.77

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